MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION DATA

EDERICK GUMM CHEMICAL COMPANY, INC.
538 Forest Street, Kearny, NJ 07032

Emergency Telephone Numbers:
CHEMTREC 800-424-9300 (24HR)
8:00 AM - 5:00 PM EST
201-991-4174 Information

CLEPO 444-N

D.O.T. HAZARD CLASS - Corrosive Solid NOS, UN1759, PG II

Effective Date:
01-03-94

CHEMICAL FAMILY - Sodium Hydroxide Mixture
CHEMICAL NAME/SYNONYMS - CLEPO 444-N
FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

SECTION 2 - PHYSICAL DATA

BOILING POINT (Deg F) - NA
VAPOR PRESSURE (mm Hg) - NA
VAPOR DENSITY (air=1) - NA
SOLUBILITY IN WATER - Complete to 32 oz/gal
SPECIFIC GRAVITY (H2O=1) - NA
VOLATILE BY VOLUME - NA
EVAPORATION RATE (H2O=1) - NA

APPEARANCE & ODOR:
ight brown powder

SECTION 3 - FIRE AND EXPLOSION DATA

FLASH POINT - None

EXTINGUISHING MEDIA:
This product is not combustible.

SPECIAL FIRE FIGHTING PROCEDURES:
Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored. Water spray, foam, dry chemical, or carbon dioxide may be used in areas where product is stored.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Will react with some metals, i.e. aluminum, tin and zinc, to release flammable hydrogen gas.

NFPA HAZARD CLASSIFICATION:

Health	(Blue)	- 3
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 1

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignficant

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued

WASTE DISPOSAL METHODS:
Caustic waste solution should not be discharged into sewers or streams. Caustic should first be neutralized with dilute acid to a locally acceptable pH, and then well diluted with water. Depending on usage and locality, may also require precipitation and filtration of heavy metals. Otherwise, contact local waste disposal contractor.

SECTION 7 - HEALTH HAZARD DATA

ROUTES OF EXPOSURE

INHALATION: Airborne concentrations of dust, mist, or spray of this product may cause damage to the upper respiratory tract and even to the lung tissue which could produce chemical pneumonia depending upon severity of exposure.
SKIN CONTACT: This product is destructive to tissues contacted and produces severe burns.
SKIN ABSORPTION: See SKIN CONTACT above.
EYE CONTACT: This product is destructive to eye tissues on contact. Will cause severe burns that result in damage to the eyes and even blindness.
INGESTION: This product, if swallowed, can cause severe burns and complete tissue perforation of mucous membranes of the mouth, throat, esophagus, and stomach.

EFFECTS OF OVEREXPOSURE

ACUTE: Corrosive to all body tissues with which it comes in contact.
CHRONIC: The chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis. Similarly, inhalation of dust, spray, or mist may result in varying degrees of irritation or damage to the respiratory tract tissues.

EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.
SKIN: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and footwear, and wash clothing before reuse. Discard any clothing that can not be decontaminated. Seek medical attention immediately.
INHALATION: Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

SECTION 7 - HEALTH HAZARD DATA continued

INGESTION: NEVER give anything by mouth to an unconscious person. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. If available, give several glasses of milk. If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.

SECTION 8 - SPECIAL HANDLING PROCEDURES

RESPIRATORY: Respiration protection is not required under normal use. Use NIOSH/MSHA approved respirator where dust, mist, or spray may be generated above TLV limit.
VENTILATION: Use adequate local exhaust ventilation where dust, mist, or spray may be generated, to maintain level below TLV limit.
GLOVES: Impervious gloves should be worn (ex. rubber or neoprene).
EYES: Chemical safety goggles and/or face shield.
OTHER: Chemically resistant shoes and apron. Safety showers and eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

SECTION 9 - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:
Avoid contact with strong acids and flammable liquids. May react with tin, zinc, magnesium, and aluminum, generating hydrogen gas which is explosive.
FOR POWDERS:
To prepare solutions, this material dissolves with the liberation of much heat. Add material slowly with constant stirring, to avoid violent splattering.
2. Store in a cool dry area, in a closed container.
OTHER PRECAUTIONS:
Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

The information herein is based on technical data that is believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warrenties, expressed or implied, and assume no liability in connection with the use of this information.

SECTION 4 - REACTIVITY DATA

ABILITY: Stable
CONDITIONS TO AVOID: NA

INCOMPATIBILITY:
Strong acids, flammable liquids, certain metals, and organic halgenated compounds. Contact with nitro compounds may form shock sensitive salts.

HAZARDOUS DECOMPOSITION PRODUCTS:
None

HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: NA

SECTION 5 - HAZARDOUS COMPONENTS

PAINTS, PRESERVATIVES, AND SOLVENTS:
NA
ALLOYS AND METALLIC COATINGS:
NA

HAZARDOUS COMPONENTS	CAS NUMBER	TLV	PEL	LD50	%
Sodium Hydroxide (Caustic Soda)	1310-73-2	C 2	2	240	28.0
Sodium Silicate	6834-92-0	C 2	2	600	15.0
Tri Sodium Phosphate	7601-54-9	NF	NF	7400	12.0
Stoddard Solvent	8052-41-3	525	2950	NF	1.00
Sodium Dodecylbenzene Sulfonate	25155-30-0	NF	NF	650	3.75

TLV = Mg/M3 - PEL = Mg/M3 - LD50 = oral, rat, Mg/Kg - NF = None Found

 # - The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA.

** - The indicated material, if any, does not have an estabished TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%.

& - The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL & LEAK PROCEDURES:
Spilled powders may be shoveled up, and stored in closed containers for possible normal use or proper disposal. Liquids should be contained and adsorbed with a suitable adsorbent, or flushed to waste treatment area. Flush area with plenty of water. Dilute mineral acid may be used to neutralize final traces immediately after flushing.